Directions:

Evaluate the student by checking the appropriate number or letter to indicate the degree of competency. The rating for each task should reflect **employability readiness** rather than the grades given in class.

Rating Scale:

- **3** Mastered can work independently with no supervision
- 2 Requires Supervision can perform job completely with limited supervision
- 1 Not Mastered requires instruction and close supervision
- N No Exposure no experience or knowledge in this area

NOTE: * = Core competencies (essential for the first day on the job).

3	2	1	N	A. Basic Computer Concepts	Notes:
				*1. Demonstrate ethical conduct in everyday	
				procedures (e.g., piracy, licensing, intellectual	
				property, etc.)	
				*2. Use basic computer terminology correctly	
				*3. Identify parts of a computer (components and media)	
				*4. Identify components of the information system	
				model (input, process, output, storage)	
				5. Compare mainframes, minicomputers, scientific	
				workstations and microcomputers	
				*6. Differentiate between common operating systems,	
				including file systems	
				*7. Perform basic computer filing tasks (e.g., naming, saving, deleting, and moving files)	
				Other:	
				Outer.	

3	2	1	N	B. Networking Concepts	Notes:
				*1. Use networking terminology correctly	
				2. Draw, label, and explain functions of networking layers (OSI)	
				*3. Identify parts of a network	
				*4. List the functions of a network operating system (NOS)	
				*5. Identify types of networks (e.g., LAN, WAN, MAN)	
				*6. Identify shared network resources (e.g., hardware, software)	
				*7. Log on/off successfully	
				*8. Access shared network resources (e.g., hardware, software files)	
				9. Describe capabilities of network wiring systems	
				10. Explain network topologies (e.g., star, bus, ring, broadband, baseband)	
				11. Diagram network topologies (e.g., star, bus, ring, broadband, baseband)	
				12. Explain principles of basic network security (e.g., IP spoofing, packet sniffing, password compromise, encryption)	

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				13. List advantages and disadvantages of	
				decentralized computing	
				14. Document network configurations (e.g.,	
				workstation, server, router, replication)	
				15. Identify types of licensing agreements	
				16. Explain current network standards and pseudo-	
				standards (e.g., IEEE, RFCs, ISO)	
				Other:	
3	2	1	N	C. Safety	Notes:
				1. List features of an ergonomically correct	
				workstation	
				2. Describe the operation of fire suppression resources	
				including fire extinguishers	
				3. Identify electrical, mechanical, chemical, and environmental hazards	
				*4. Practice workplace safety (e.g., first aid, eye	
				protection, anti-static procedures)	
				*5. Demonstrate proper use of hand tools	
			<u> </u>	*(D	
				*6. Demonstrate proper use of electrically operated	
				equipment including grounding Other:	
				Other.	
			,		
3	2	1	N	D. Communications	Notes:
				*1. Present solutions in a positive, tactful manner	
				*2. Practice constructive problem solving with	
				customers	
				*3. Explain concepts of remote access and phone	
				*3. Explain concepts of remote access and phone support	
				*3. Explain concepts of remote access and phone support *4. Describe software and hardware tools to support	
				*3. Explain concepts of remote access and phone support *4. Describe software and hardware tools to support individuals with disabilities	
				*3. Explain concepts of remote access and phone support *4. Describe software and hardware tools to support individuals with disabilities *5. Explain the need for network policy	
				*3. Explain concepts of remote access and phone support *4. Describe software and hardware tools to support individuals with disabilities *5. Explain the need for network policy documentation	
				*3. Explain concepts of remote access and phone support *4. Describe software and hardware tools to support individuals with disabilities *5. Explain the need for network policy documentation *6. Create basic user and/or network administrator	
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3	2	1	N	*3. Explain concepts of remote access and phone support *4. Describe software and hardware tools to support individuals with disabilities *5. Explain the need for network policy documentation *6. Create basic user and/or network administrator documentation *7. Demonstrate effective telephone support skills 8. Present an oral proposal for a network installation 9. Prepare a written request for proposal 10. Create technical correspondence Other:	Notes:
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3	2	1	N	*3. Explain concepts of remote access and phone support *4. Describe software and hardware tools to support individuals with disabilities *5. Explain the need for network policy documentation *6. Create basic user and/or network administrator documentation *7. Demonstrate effective telephone support skills 8. Present an oral proposal for a network installation 9. Prepare a written request for proposal 10. Create technical correspondence Other: E. Hardware *1. Verify operation of common peripherals *2. Install and uninstall common peripherals	Notes:
3	2	1	N	*3. Explain concepts of remote access and phone support *4. Describe software and hardware tools to support individuals with disabilities *5. Explain the need for network policy documentation *6. Create basic user and/or network administrator documentation *7. Demonstrate effective telephone support skills 8. Present an oral proposal for a network installation 9. Prepare a written request for proposal 10. Create technical correspondence Other: E. Hardware *1. Verify operation of common peripherals	Notes:

	*5. Install and configure a modem
	*6. Perform basic hardware upgrades (e.g., hard drive,
	CD-ROM, memory, video and sound cards)
	7. Specify internal components for a network server
	8. Differentiate between routing and switching/bridging
	9. Differentiate between various current protocols (e.g., TCP/IP, IPX/SPX, NETBEUI, DHCP)
	*10. Identify industry standard workstation hardware systems
	11. Compare current industry standard busses
	12. Identify industry standard server hardware systems
	Other:

3	2	1	N	F. Connectivity	Notes:
				1. Attach a connector to the end of a cable	
				successfully	
				2. List the advantages and disadvantages of different topologies	
				3. Explain advantages and disadvantages of wireless technologies	
				4. Explain the difference between standard analog and digital lines	
				*5. Interpret network diagram	
				6. Explain different functions of network communications equipment (e.g., modems, DSUL/CSU, bridges, switches, routers, hubs)	
				7. Implement asynchronous connectivity (e.g., Internet, Intranet, dial-up, SLIP, PPP)	
				8. Differentiate areas of responsibilities between the telecommunications providers' responsibilities and their clients' responsibilities	
				Other:	

3	2	1	N	G. Software	Notes:
				*1. Analyze and modify system configuration files	
				*2. Launch an application	
				*3. Install and verify device drivers	
				*4. Perform basic software upgrades	
				*5. Establish client environments to utilize network resources	
				*6. Implement virus protection and removal procedures for a network	
				*7. Implement virus protection and removal procedures for a stand-alone computer	

	*8. Use file compression programs	
	9. Install and configure operating systems	
	Other:	

3	2	1	N	H. Network Operations	Notes:
				*1. Demonstrate the ability to access the Internet	
				*2. Create and delete user groups and aliases	
				*3. Implement secured access to network resources	
				*4. Describe procedures that are executed through login scripts	
				*5. Create printer queues	
				*6. Enable printer capture	
				*7. Maintain printer queues	
				*8. Perform backup procedures	
				*9. Restore files successfully	
				*10. Maintain operational logs (e.g., maintenance, security, transaction)	
				*11. Maintain data availability (e.g., rights and trustees)	
				*12. Create a customized login script	
				*13. Install a print server	
				*14. Install remote printing	
				*15. Implement various current protocols (e.g., TCP/IP, IPX/SPX, NETBEUI, DHCP)	
				Other:	

3	2	1	N	I. System Risk Management	Notes:
				*1. Describe backup procedures	
				*2. Describe the importance of system security (e.g., passwords, user accounts)	
				*3. Demonstrate forms of network security (e.g., passwords, user accounts)	
				4. Explain the concept of firewall usage	
				*5. Discuss virus protection procedures on a network	
				6. Identify system management software	
				*7. Perform console operations	
				8. Perform site survey	

	9. Develop a disaster recovery plan	
	10. Analyze licensing requirements	
	11. Compare directory services	
	*12. Evaluate equipment for purchase	
	13. Recommend different levels of fault tolerance (e.g., transaction tracking/logging, auditing, uninterruptible power sources [UPS], mirroring, duplexing, redundant array of inexpensive disks)	
	14. Design and implement a network security system	
	Other:	

3	2	1	N	J. Troubleshooting	Notes:
				*1. Verify client access to network resources	
				*2. Utilize existing technical resources for problem resolution (e.g., Internet, technical manuals, e-mail)	
				3. Identify sources of electromagnetic interference	
				*4. Use troubleshooting tools to determine problem areas	
				*5. Analyze system log files	
				*6. Perform and interpret diagnostics	
				*7. Troubleshoot printer queues	
				*8. Troubleshoot software/hardware integration problems	
				Other:	